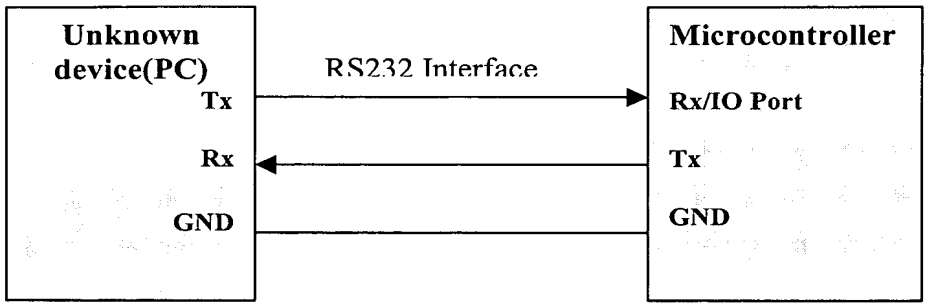
Unknown device(PC)
Tx
Rx
GND
RS232 Interface
Microcontroller
Rx/IO Port
Tx
GND

Figure 1

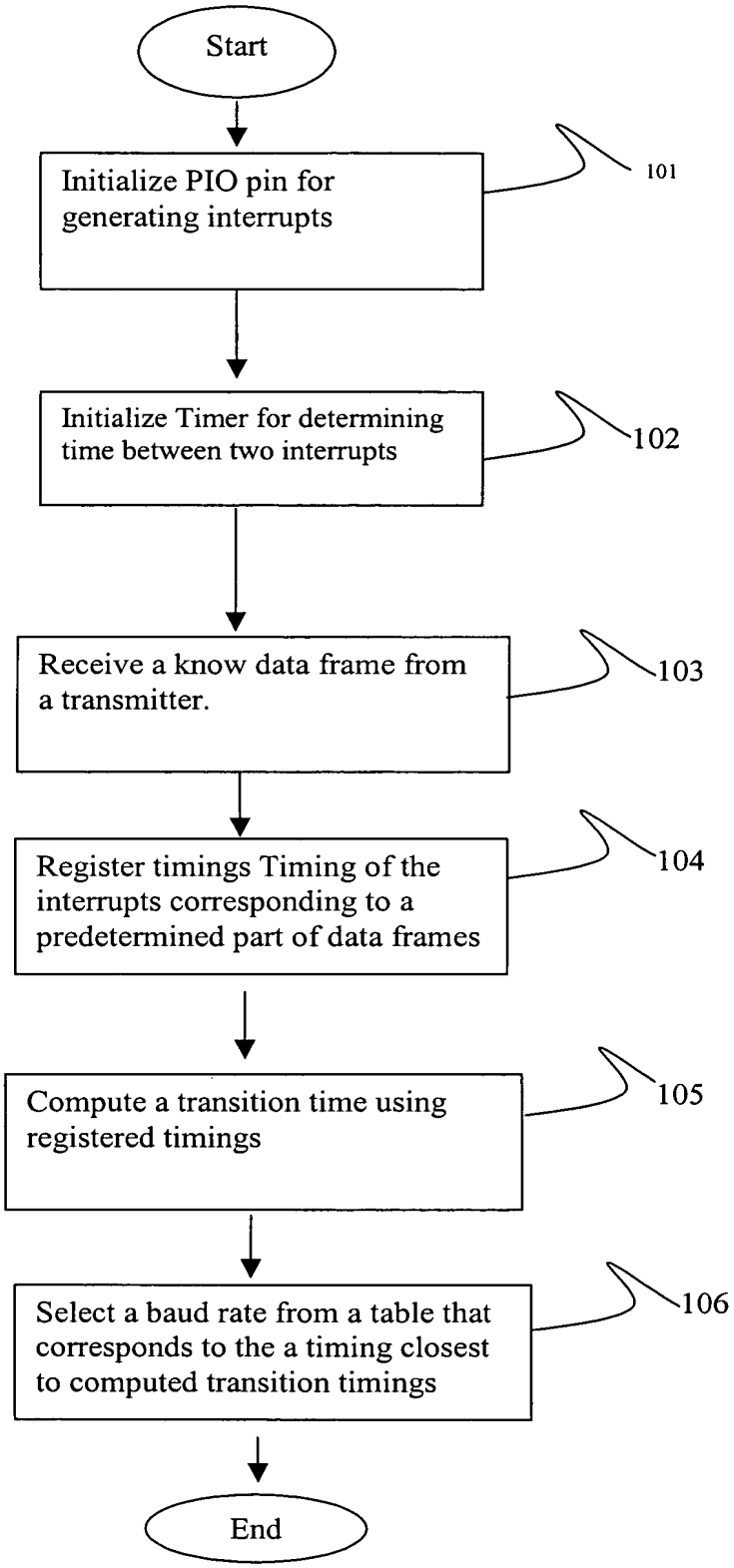
Start
Initialize PIO pin for generating interrupts
101
Initialize Timer for determining time between two interrupts
102
Receive a know data frame from a transmitter.
103
Register timings Timing of the interrupts corresponding to a predetermined part of data frames
104
Compute a transition time using registered timings
105
Select a baud rate from a table that corresponds to the a timing closest to computed transition timings
106
End

Figure 2

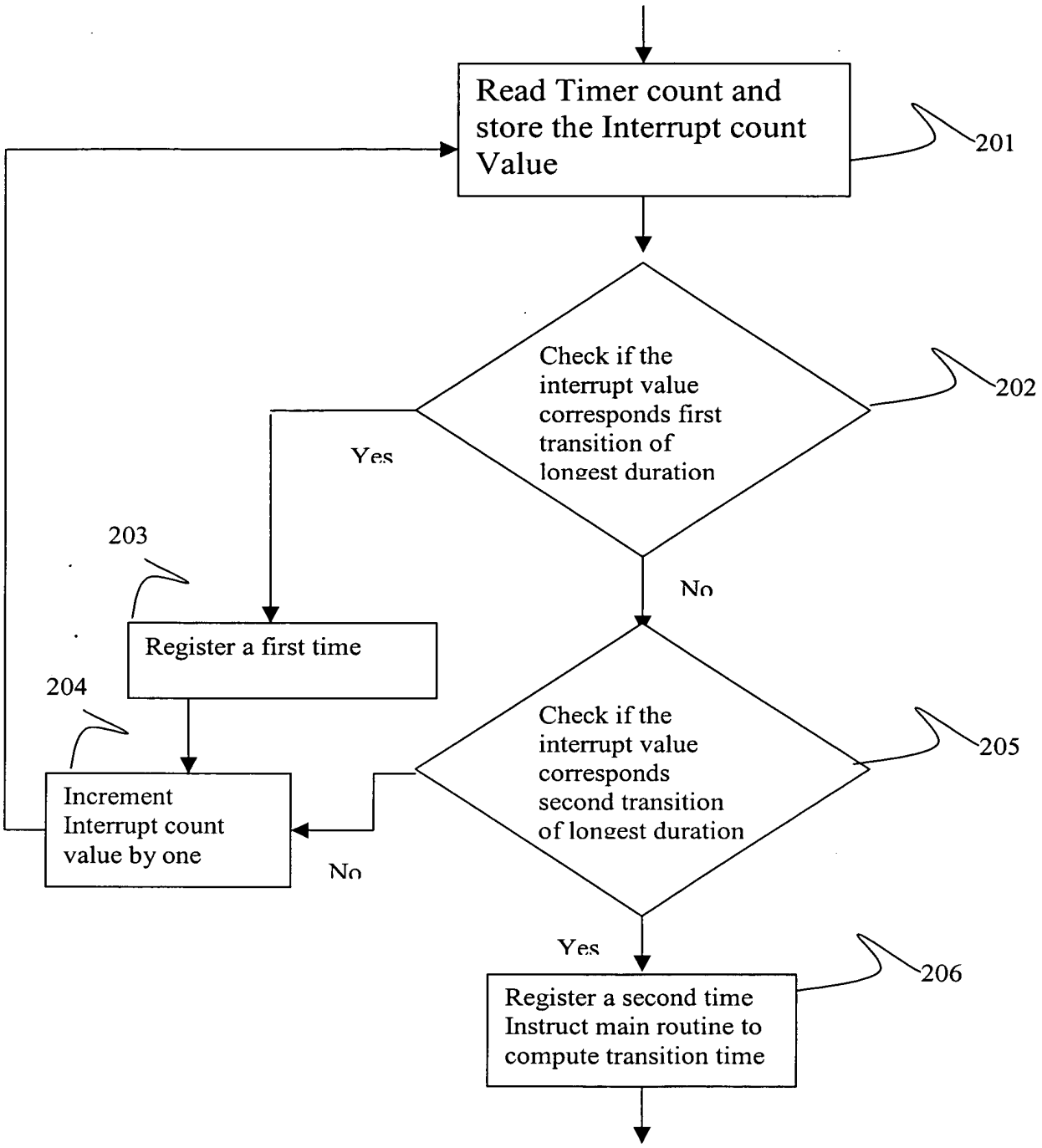
Read Timer count and store the Interrupt count Value
201
Check if the interrupt value corresponds first transition of longest duration
202
Yes
No
203
Register a first time
204
Increment Interrupt count value by one
Check if the interrupt value corresponds second transition of longest duration
205
No
Yes
Register a second time Instruct main routine to compute transition time
206

Figure 3

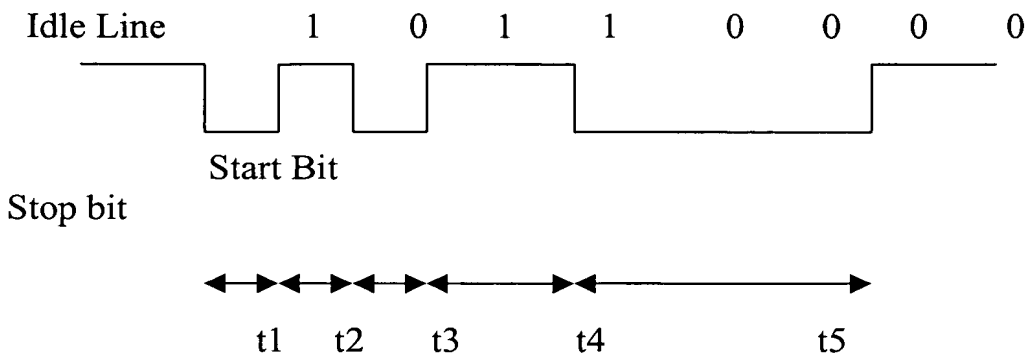

Figure 4